



Adrienne & Frothingham Will Sing At I.F.C. Dance

Punch Parties, 5:15 Gadget Carnival On Sat. Will Wind Up Gala Week End

Simmons Co-ed Picks Door Prizes

Plans for a short floor show entertainment at the I.F.C. dance next Friday night have been completed, starring singers Adrienne and Eleanor "Sis" Frothingham, it was announced yesterday by Warren E. Foster, '43, chairman of the dance committee. These featured attractions are being scheduled on a program of events which already includes a money balloon barrage, champagne door prizes, minstrel singers, and the music of Sam Donahue and Harry Marshard with their respective bands.

Glamorous "Sis" Frothingham, once Boston's number one debutante, is now society's first singer, while Adrienne, a tall, slender brunette, is most well-known for her rendition of popular songs in French, Spanish, and English. Adrienne, whose full name is

(Continued on Page 4)

SONGSTRESS



Adrienne, who will sing for Fraternity Men at the I.F.C.

Sam Donahue's Band For I.F.C. Features "Finest Sax Section"

Characterized as "America's most refreshing bandleader," Saxophone Sam Donahue will present his band and his music for dancing enjoyment at the I.F.C. party in the Hotel Statler on March 27. Included in this increasingly popular orchestra is perhaps the finest sax section in the country with Donahue himself featured on tenor.

Born twenty-four years ago this month, Donahue began his musical career in the usual warped manner of most infants, namely, by crying. As a remedy for this behavior, Sam's mother bought him a clarinet, and from then on the tale is typical of the success stories of many musicians. After the clarinet, Sam's next instrument was an alto sax, which he borrowed from a friend and returned months later after he was able to purchase a tenor sax for himself.

High-School Bandleader

Of course he played in his high school band and was judged the best musician in school, thereby winning first recognition of his musical talent. While still in high school, Donahue organized a ten-

piece band, little realizing that eight years later these same boys would form the nucleus of the band he proudly leads today. For seven lean years Sam and his original band struggled to make a living in the musical world, although Donahue himself was besieged with offers from famous orchestras to be featured as a tenor sax soloist. Finally, in order to establish a

(Continued on Page 4)

Dr. Rabinowitch's Photo-Electric Cell Suggests Solution To Photosynthesis

Photosynthesis, the process by which solar energy is converted into chemical energy, and whose unique demonstration lies in the wonder properties of chlorophyll, has for ages prodded scientists into its explanation. When, over a hundred years ago, the Becquerel cell, the first cell which was devised to produce an electric current with the aid of light, was invented, no one knew how it worked. When Lange accidentally stumbled upon the photoelectric properties of selenium "Camer layer" cells, and thus invented the widely used photronic

cells, the essential process was still a mystery.

Secret Is Revealed

In an M.I.T. laboratory not long ago, however, another cell was constructed in which light is converted into electric current. But this time it was discovered how and why. The name of the discoverer is Dr. Eugene Rabinowitch.

Physical-chemist Rabinowitch, long acquainted with the photosynthetic wonders of chlorophyll, set out on his study with two purposes: the first was to devise a cell which, at expense of light energy a chemical reaction could be made to run "uphill." He then wanted to use this shift of chemical equilibrium for the production of an electric current. His main problem was to find an organic dye which would reverse one natural direction of combustion processes on other oxidation-reduction reactions.

Organic Dyes Responsible

A purple dye called thionine appeared to be the answer. It was discovered that the ferrous ions in a solution of thionine and ferrous sulfate will under the influence of light, be oxidized to ferric ions, while the thionine is correspondingly reduced to leukothionine. Without the action of light, however, the action is reversed, thus creating an electromotive force. These conclusions gave Rabinowitch the principle of this cell.

The cell consist of a single container, one half of which is exposed

(Continued on Page 4)

Class Presidential Candidates Speak Before Elections Forum

Junior Class Social Program Is Widely Discussed At Meeting

Vu To Conduct Secretary Poll This Wednesday

Vu realizing the vast reservoir of feminine photogenic talent which lies hidden in the various offices of Technology, has resolved to conduct a "favorite secretary" poll. Men who are partial to one particular secretary in the Institute may express their feelings in ballot form at any time between 10:00 A.M. and 3:00 P.M. tomorrow, in the lobby of Building 10. Pulchritude is to be the prime consideration.

Secretaries may be identified by their proper names, the number of the room in which they work, or the name of the professor for whom they work. In general, "that cutie who works over in Building 7," will be regarded as insufficient identification. The winners' pictures will be featured in the May issue of Vu, provided the young ladies consent to this publicity.

Only 33 Attend Student Rally

With a mere thirty-three students present to hear candidates speak, the annual Debating Society elections forum got under way at 5:15 P.M. last evening in Room 10-250. Ward J. Haas, Vice-President of the society and chairman of the forum, introduced each candidate and conducted the question period at the end of each talk.

One of the more important topics which were brought up at the meeting was the subject of the responsibility of the Junior Class President. George A. Schutte, '44, brought to the attention of those present that the President of the Class of 1944 would become President of the Institute Committee, upon the graduation of the Class of '43 in February of 1943. This fact, Schutte said, calls for extra consideration when choosing the Junior Class President.

Politics Discussed

The subject which received widest comment was that of fraternity-dormitory-commuter politics. Most

(Continued on Page 4)

NOMINEES FOR CLASS OFFICERS

Class of 1942	
Permanent President	Jerome T. Coe
Carl L. McGinnis	
Permanent Secretary	
Frederick W. Baumann, Jr.	
Class Day Marshals	
(3 to be elected)	
David Christison	Francis B. Herlihy
Robert B. McBride	
Class of 1943	
President	S. Richard Childerhose
John W. McDonough, Jr.	
Secretary-Treasurer	George C. Marakas
Henry M. Tiedemann	
Institute Committee	
(2 to be elected)	
James A. Malloch	Robert S. Reebe
Robert J. Schaefer	Edmund R. Swanberg
Class of 1944	
President	Malcolm G. Kispert
John A. White	Caleb S. Taft
Secretary-Treasurer	
Edward P. Radford, Jr.	
Institute Committee	
(2 to be elected)	
Robert V. Colman	Langdon S. Flowers
Robert A. Plachta	Robert B. Meny
Kenneth M. Rehler	John T. Toland
Beaver Key Society	
(8 to elected)	
George N. Ziegler	Samuel K. Taylor
Caleb S. Taft	Theodore G. Loomis
Dean C. Pieton	Langdon S. Flowers
Robert B. Meny	Gary C. Meyers
Joseph L. Kaufman	James Woodburn
Richard P. Wareham	George S. Devoe
Class of 1945	
President	John L. Hull
Secretary-Treasurer	Leavitt J. Pope
Institute Committee	
(2 to be elected)	
Leslie M. Brindis	John W. Colton
Robert A. Horsburgh, Jr.	

PERPETUAL POWER?



Dr. Eugene Rabinowitch is shown here in his laboratory. Story on this page.

The Tech

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Tuesday, March 24, 1942

No. 13

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VOTE TO GRIPE

Thirty-three campaign managers, newspaper men, and candidates for class offices were the sole attendants at the elections forum last night in Room 10-250. Thus the second attempt of the Debating Society to acquaint the student body with the group of men from whom three class presidents are to be chosen, and to correct, at least partially, the situation which has found residential politics predominant at Technology during the past few years was received with a minimum of enthusiasm and support. That lack of interest in student government by the students means but one thing: that Technology undergraduates do not care how nor by what individuals their school affairs are managed.

Daily, students fill the air with criticisms of the actions of their student officers and committees. They don't approve of the band that the Junior Prom Committee has signed, they don't like the idea of a barn dance during Senior Week, and they complain about how all worthwhile offices go to a few student politicians. But when the Debating Society offers them a means of helping to right all these evil-doings, they fail to accept the offer.

There is, however, one remaining way in which the student body can redeem itself. That is obviously in the class elections. The only means which the student now has to gain justly his privilege of griping is to cast his vote tomorrow.

ENGINEERS FOR RECONSTRUCTION

While the general pattern of the world of tomorrow has been clouded in turbulent confusion ever since the day when yonder Austrian paperhanger took matters into his own hands, it is high time that we applied some good, common engineering sense to the problems of social and economic reconstruction. Too often has it been our privilege to participate in discussions extolling the glaring injustices of the treaty of Versailles. Too often have we censored the lack of imagination of the drawing room politicians who less than a quarter of a century ago cast the die for what they believed to be a world pattern of happiness, prosperity and peace.

Too evidently plain are the gruelling consequences of the mistakes of a former day. It is our sacred duty to prove that they cannot and will not be repeated. All over the country are springing up discussion groups, small and big groups of enthusiastic individuals who now, even in the midst of the world-wide clash of arms, are moulding plans for the future based on the assumption of the destruction of the totalitarian menace in the East and in the West.

Our words of hearty encouragement go to the Post-War Reconstruction Conference which meets for the third time tomorrow afternoon at the Institute. The fact that this conference group has vigorously started upon a task which we trust its members do not underestimate, indicates that already a step has been taken in the right direction. While the Institute is, as a whole, keyed to the objective of helping as effectively as possible in the persecution of the war, we need no apologies for a conference to discuss and formulate a practical and constructive program for a Post-War world.

Let us hope that this conference will not frit away many idle moments over vague theories of philosophy, but will analyze the vast variety of problems confronting it in terms of their fundamentals and with an approach revealing the attitude of impartial and sane engineers. This conference deserves the support of every member of the Institute community who holds any hopes for the world of tomorrow.

Industrialization Of South America Alters Our View

Political Problems — II

The motivating power in the attitude of the United States toward its Latin American neighbors has, during the greater part of the past century and a half, been the instinct of self-preservation. Our so-called "Good Neighbor" policy actually has its origin in a unilateral self-preservation declaration which we know as the Monroe Doctrine.

In the early nineteen thirties however, we came to realize that such a policy could no longer be truly effective. The "banana" countries, which we seemed to think we could forever keep tied to our apron strings, were growing up. They were beginning to make known that they were not backward Indian countries which provided a place for "dollar diplomats" to extend their spheres of influence, but that they were prospective world powers, richer in resources than any other similar countries on the surface of the earth.

Fraternity Is Fostered

When the men who determined our foreign policies gradually came to realize this, they also gradually began to get the idea that these countries must be looked at with a more fraternal and less paternal attitude. But, as is usual with our diplomats and our people, they came to this realization at a very late date. To see why this is so, we shall make a hasty exploration into the field of economics.

Most of the South American countries are almost exclusively agricultural. This is a natural state for young countries. Their chief crops are such staples as wheat, coffee, meat, maize, and similar products. In many cases, as is evident, these crops are in direct competition with our own. With other crops, such as coffee, we can absorb only a small part of the total

(Continued on Page 4)

The Reader Speaks

Editor, The Tech:

The interest which numerous seniors are showing in the Senior Week program is very encouraging, and indicates that our 1942 graduation will be accompanied by an excellent social program. The Committee wants to provide the functions most desired by the class, and it is only through criticism and suggestions that this can be effectively accomplished. Early graduation has necessitated certain changes in the usual program,—changes which must be made to the satisfaction of the majority of ticket holders.

With regard to the Friday night party, the plans for which have been under discussion, the Committee fully intends to follow the wishes of the class. With the assistance of certain interested men, the various proposals are being investigated. As soon as their practicality has been established, Senior Week ticketholders will be canvassed to determine their sentiments.

It must be remembered, of course, that there are practical limitations to any program. Committee members are personally responsible for the financial success of Senior Week, and consequently can only plan events which give a reasonable prospect of financial success. The sale of tickets has not been such that lavish plans are easily feasible.

The Committee is appreciative of any comments regarding the program, but urges that all these be made in the next two days, since definite arrangements must be made immediately. We wish to thank those who have expressed their sentiments already.

Very truly yours,
 Jerome T. Coe, President
 Class of 1942

For Boys To Play

By Gene Schnell

... looking ahead to the I.F.C. weekend, reports seem to indicate that Saturday night's entertainment will be a fitting sequel to the gala affair. Strictly in an informal vein six parties have been planned to date, while complete information is still unavailable.

... the Delts are going to invade North Stoughton in particular Sullivan's Barn, where they will hold their Spring Informal. A suggestion to those trying to locate North Stoughton without combing the countryside is to consult any local map and spot Stoughton. From there it's easy. The barn gates will swing open at 8:30, after which Chappie Arnold's orchestra will take over.

... opening their house to all I.F.C. ticket holders, the Kappa Sigs will start entertaining Saturday night at the stroke of nine. Refreshments consisting of beer and punch the latter for teetotalers, will be served, with Jack Sardi doling out the live. It has been rumored that decorations are still unplanned, due to war production.

... the All-Tech Carnival, sponsored by the 5:15 Club in Morss Hall, Walker Memorial Building, with its novel entertainments will hold sway from eight to twelve. Featuring the annual Rube Golberg contest, current affairs will be simulated with the advent of a Black-out Meter. The McNemany Twins will supply the music.

... Fry's Barn in Brookline will be the locale of the Barn Dance and Beer Party staged by the Phi Betes on Saturday night. Entertainment will commence at nine o'clock, with Preston Sandford handling the musical score. A report from authoritative sources indicates that though sixty gallons of beer will be on tap, punch will be served from the side-board to abstainers—lucky abstainer.

... The Phi Lambda Phis plan to ease off after the big night with an informal record dance at their house on Beacon Street. Featuring the best in disc music, dancing will commence at eight o'clock after buffet dinner.

... a joint informal dance is scheduled by the Sigma Nu and Alpha Tau Omega fraternities at the Commonwealth Country Club. Bert Edwards has been engaged to supply the music, while a floor show, which is still in the formative stage, is also planned. Things get under way at eight-thirty.

... for those interested in the more classical side of entertainment, Serge Koussevitsky will introduce to Boston, Saturday evening, the Double Concerto of Martinu for Two String Orchestras, Piano and Timpani. The program will also consist of Tchaikovsky's Overture-Fantasia, "Romeo and Juliet," and The First Symphony of Brahms in C minor.

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Dekes Vanquish Chi Phis At All-Tech Swim

Diving Exhibition And Water Polo Interest Good-sized Audience

Taking first place in the medley relay and the 50-yard breaststroke dash, the Delta Kappa Epsilon swimmers captured the honors at the annual All-Tech swim in the Alumni Pool on Sunday. S.A.E. produced one man Stoutenburgh, who nearly walked off with the prize when he seized the freestyle and backstroke sprints. The remaining race was annexed by Chi Phi, who nosed out Phi Gamma Delta and D.U.

The friendly rivalry with which the teams competed made for fast and close races throughout. The relays especially caused considerable excitement among the many spectators, as one team led, only to be sloughed under by another team. Chi Phi's win in the freestyle relay was truly a photo finish with the competing swimmers coming in almost as one man.

Exhibit Dives

Not content with the races alone, the Tech Swim Club, sponsors of the meet, provided a show which kept the spectators on their feet throughout. Divers Reebie, Hunn, and Lamadrid gave an awe-inspiring exhibition of their choicest dives. An appreciative audience applauded freely as they watched turns and gainers and somersaults from both boards. These dives were interspersed with instruction in the art of belly-flopping and trick diving with the aid of a ringer from the contestants.

The climax of the afternoon was the water polo bout between varsity and freshman teams. The instructions given by Referee Gordon Smith were that no swimmer was to be held under for more than five minutes and, with such a starter, the competitors proceeded to drown each other. The upper-class sextet finally won by the score of 2 to 1, but it took them two overtime periods to succeed.

The net results gave the Dekes first place with 22 points, followed by Chi Phi with 17 and S.A.E. with 14. Phi Gamma Delta was fourth totaling 13, Delta Tau Delta amassed 12, and D. U. had 10 points. Phi Delta Theta brought up the rear, after the only independent candidate from the dorms, Rosenberg, took 4 points.

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ACTION AT ALL-TECH SWIM



Varsity Shooters Outfire Huskies

Beavers Defeat Harvard Freshmen By 1310-1252 Score

Finishing their home season on Saturday the Tech riflemen overcame Northeastern Univ. in a shoulder-to-shoulder match, the final score of which was 1353-1332. Those placing on the varsity team were Herman R. Lorence, Peter G. Weisenthal, Linwood P. Adams, Harry R. Corwin Jr., and William B. Terry, Jr. Next Friday a five man varsity team will travel to New London, Conn., to take part in the New England College Rifle League Intercollegiate matches. Saturday the same team will fire in the Eastern Intercollegiate. The season will be concluded with an inter-class meet next week and anyone interested in competing for his class should get in touch with Coach Woicak. He can be found at the range Wednesday night after seven or Thursday afternoon from three to five, in Room 5-209 during the day.

Last Wednesday the frosh team turned back the Crimson as many Beaver outfits have done this season by a score of 1310-1252. Those men placing in the freshman match were Dundon, Rosar, Burmaster, Ilfield, and Ericson.

M. I. T. Cricket Club Begins New Season

The M.I.T. Cricket Club, which has just been made a member of the Massachusetts State Cricket League, will start the cricket season during the first week of April, playing its first match during the second week of May.

The present members of the team are: H. S. Amin, C. M. Krook, G. R. H. Beatty, S. N. Steen, S. R. Nanavati, Dara Antia, Pedro Cabral, Mac-Dastur, Keith Knutzen, T. M. Donaldson, S. D. Dubash, and Lalvani. All others who wish to join the team should meet in Walcott 512 at 5:00 P.M. on Tuesday, March 24.

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McCarthy Announces Gym Classes In Walker

"Special classes, including games which aid in physical development, will be arranged to meet the time and needs of the students who wish to take advantage of the availability of the Walker Memorial Gymnasium," announced Henry P. McCarthy, Director of Physical Training. "All students and staff members desirous of taking exercises to improve their physical fitness are urged to call at the office of the Physical Director, Room 335 Walker Memorial, at their convenience."

Softball Will Start Next Saturday P.M.

Eastman-Walker Field Has Been Granted For Beaver Key Tourney

The Beaver Key softball tournament will start on Saturday of next week. Announced schedule will be released the previous Friday.

The tournament will be held on two fields which will be designated between Walker Memorial and the Eastman Building, and on various other fields around town. They will, on the whole, be confined to Saturday afternoons, and the tournament must be over before April 19. It will be a single elimination tournament. All prospective entries must have their applications in before 11:00 P.M. on Wednesday.

Marakas Chosen New Hoop Captain

The basketball team held a banquet last Tuesday night at the Graduate House for the purpose of giving out numerals, T's, and other awards. There were informal talks by Coach McCarthy and a few other guests.

The awards were made as follows: Ernest F. Artz, '42, and Jerome T. Coe, '42 were given the straight T; Edward R. Berry, '42, was awarded the bTb with bar; John L. Whelan, Jr., '42, was awarded the varsity club medal. George C. Marakas, '43 was elected captain for the next season, and James H. Barnes, Jr. '44 was announced as the new manager for the 1942-1943 season.

Freshmen who received numerals were: Peter J. Davis, Robert A. Domin, Randall D. Esten, Frederick G. Heuchling, Jr., Frank J. Iskra, Richard V. Mullikin, Joseph A. Nowak, Timothy R. O'Leary, Jr., Gordon D. Shingleton and Jack E. Sonnenblick.

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Beaver Feats

BY GARD SLOAN

Gym Team Trains To Meet Springfield

Dogged by hard luck during the entire season some thirty loyal varsity and freshman gymnasts are preparing for the N. E. A. A. U. championship meet and Springfield meet in the Walker Gym at 7:00 this Saturday evening.

Early last fall the gym team withdrew from New England Intercollegiate circles. It was found that not enough neighboring colleges had gym teams with which to compete and that competition with teams at a distance entailed trips too long to be deemed feasible. In spite of this, several meets were scheduled. But with the coming of the war most of these were cancelled.

Worst Blow to Come

The worst blow to the team came early in December when they were forced to leave the Walker Gym. The team resorted to cramped quarters in the Y. M. C. U. in Boston. But the gymsters persevered and competed against McGill University in Montreal, winning 46-44.

On March 10 the gymnasts were able to re-enter the Walker Gym and have been continuing practice for the coming Springfield and A. A. U. meets. The prospects for this meet are bright. Emilio Touche will compete on the side-horse; Heinie Shaw, tumbling; George Anderson, side-horse, parallel bars; Box Maxwell, highbar, parallel bars, rings tumbling; Frank Wilbour, rings; Henry Bourne, rope climbing; and Chuck Carlson, who won a novice title last year.

The New England Amateur Athletic Union championships will be run on an individual basis. Ray Keyes, '40, who was a one-man team for Technology a few years ago, will be one of the competitors. There are three classes in the meet; senior, junior, and novice. What the men do in the N. E. A. A. U. will count in the match against Springfield. The varsity men have a better chance of beating Springfield than they did last year and will be out to avenge last year's defeat. Other colleges represented in the meet will probably be Amherst and B. U.

Golf Starts Season With Rally Tomorrow

There will be a meeting of all interested in golf at five o'clock Wednesday in Room 5-108. Everyone who wants to try out for either the varsity or freshmen teams, and particularly old team members should report.

Senior A Wins Beaver Key Cage Tourney

Winner Followed By Goodale, S. A. E. 5:15 Club, Phi Gams

Finishing the round robin meets undefeated, the team from Senior A won the Beaver Key Basketball trophy as it beat an S.A.E. group Sunday in the Walker Gym. The organization will now hold the cup for a year and will have its name engraved thereon.

The 5:15 Club was eliminated this year from permanent possession as they fell before three teams in the round robin. Their defeat according to their athletic chairman may be blamed on lack of interest among the members in general.

The individual counts in the elimination meet are: Senior A, four wins, no defeats; Goodale, three wins, one loss; Sigma Alpha Epsilon, two each; 5:15, one success, three drops; and Phi Gamma Delta, four defeats.

Higgins Second In Sabre Division At New York Meet

Intercollegiate Meet Was Last For Fencers In The Current Season

The Beaver swordsmen traveled to the Eastern Intercollegiate fencing championships last week-end held in the Salle Santelli Fencing Studio in New York City, and returned with one man tied for second place in the Sabre division. That man, Steve Higgins, '44, won eight of his twelve matches but was finally eliminated in the semi-finals. Richard Ackerman in the foil class made a clean sweep of the initial day winning all six of his matches but the second day he dropped three and ended with a count of 12 won and 3 lost.

The won-lost scores of the others are as follows: Foil: Paul Colsmann 5-7, William Kellogg 0-2, who was replaced later by Richard Braendle who had a count of 6-4; Epee: William Kellogg, 4-8; Robert Kratz, 1/2-9 1/2, who was replaced by Ackerman, who had 1-1; John Hinchman 7-5. Sabre: 4-8, and Welville Novak, 2-7, who was replaced by Richard Maconi who had 0-3. This meet concluded the fencing team's current season.

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CALENDAR

TUESDAY, MARCH 24

4:00 P.M. Marriage Lecture—Huntington Hall.
5:00 P.M. Marriage Lecture—Huntington Hall.
6:00 P.M. Senior House Dinner—Pritchett Hall.
6:15 P.M. A.I.E.E. Dinner—Faculty Lounge.
6:15 P.M. Gridiron Initiation Banquet—Graduate House.

WEDNESDAY, MARCH 25

9:00 A.M.-5:00 P.M. Elections Poll—Main Lobby.
4:00 P.M. Mathematical Society Meeting—Room 2-132.
5:00 P.M. Frosh Council Meeting—Room 7-108.
5:00 P.M. Golf Team Meeting—Room 5-108.
6:00 P.M. Grad House Dinner—Main Dining Room.
6:00 P.M. A.P.O. Initiation Banquet—Smith House.
6:15 P.M. Student-Faculty Committee Dinner—Silver Room.

THURSDAY, MARCH 26

5:00 P.M. Nautical Association Movies—Huntington Hall.
8:00 P.M. M. I. T. Chemical Society Meeting—Room 2-320.

SATURDAY, MARCH 28

6:15 P.M. Lowell Institute Alumni Dinner—Grad. House.

Sam Donahue's Band Is Sweet And Swing

(Continued from Page 1)

name for himself on which to support his band, Donahue accepted some of these offers, gaining nationwide recognition as a soloist with such renowned orchestras as those of Gene Krupa, Harry James, and Benny Goodman.

After securing a firm musical reputation, Sam returned to his own band in December, 1940, and under his leadership, the outfit really began to click. Within the past year alone, the rise of Donahue's band has been of skyrocket proportions. Music critics in many publications as well as other orchestra leaders themselves have been loud in their acclaim of this coming new band. These critics describe the natural rhythmic style of the band as the most refreshing in the past decade, believing that the youthful spirit of its streamlined music will find favor with both old and young alike. Featured with the band on vocals are Donna Mason, and Fred Lane, while Wayne Herdell, Mitchell Paul, and Harold Hahn exhibit individual distinction on the piano, trumpet, and drums respectively.

Sweet to Swing Music

Although more popularly known as the swing contestant in the I.F.C. "Battle of Music," Sam Donahue's band is not stylized. His arrangements run the gamut of music from sweet to swing, from graceful, lilting waltzes to real killer-diller jive.

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Rabinowitch Experiments With Photosynthesis

(Continued from Page 1)

to light and the other kept darkened. By the action of light, a difference of chemical potential was created in the two halves of the cell. By the immersion of platinum electrodes, one in each half, an electric potential was created. This yielded the electric energy for which Rabinowitch was searching.

Scientific Importance

The significance of this cell at the present stage is not a commercial one. What Rabinowitch achieved was a new controlled method of converting light energy into electrical energy by means of a simple chemical reaction. Whereas the photoelectric effect of the old Becquerel cell often was uncontrollable due to impurities rather than to the essential components of the cell, Rabinowitch demonstrated how this effect can be obtained in a well-defined chemical system in which light causes an oxidation-reduction reaction to run "backwards," away from the thermodynamic equilibrium. This proceeds fundamentally in the same way in which the combustion of glucose to CO₂ and H₂O is reversed by chlorophyll and light in green plants. In short, Rabinowitch's achievement cell is a tremendous scientific jump.

Studied In Germany

Eugene Rabinowitch was born in Russia. He later studied at the University of Berlin, collaborated with James Franck, a Nobel Prize bio-physicist, and was launched on the study of the mechanism of photosynthesis and the effect of light on oxidation-reduction processes. He later moved to England in 1934 where he studied further, and in 1938 he came to America. Since then he has been working through the Cabot Foundation. Numerous scientific papers and two books bear his name on the subject on which he is working. Asked what he would do now, he answered only with a scientist's philosophical shrug of the shoulders.

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Gridiron Banquet Planned Tonight

Publications Honorary Initiates New Members In Dutch Room, At 6:15

Initiates of Gridiron honorary publications society, will present their traditional play to the members of the Society at an initiation banquet to be held tonight at 6:00 P.M. in the Dutch Room of the Graduate House. The play will be a satire on a series of unannounced subjects.

All the initiates are Sophomores, with the exception of Stewart Rowe, '43, editor-in-chief of Vu magazine. Others elected are: James E. Gallivan, Bernard Rabinowitz, Arnold Mackintosh, Jr. and Harry W. Turner, of the staff of The Tech; Paul M. Heilman, II, J. Thomas Lawson, and Lee C. Eagleton of T.E.N. and Carl C. Roden Jr., Gerald Dennehy, and Jasper D. Ward of Voo Doo.

European Influence On Hemisphere Solidarity

(Continued from Page 2)

export crop. The net result is to make these countries much closer, economically speaking, to Europe than to the United States. The further south we go, the more valid this statement becomes.

European Influence

Now during the part of the last several decades when we were ignoring our competitors, European countries were building up "spheres of influence" in these nations. (The most active country in this respect was England—not Germany as is commonly supposed). This resulted in the more southerly nations on the South American continent growing further and further from the United States.

Correction Being Made

Our own state department is now struggling to make the corrections. The American people, however, seem to be doing their best to balk these efforts. If, for example, the "farm bloc" would come to realize that Argentine beef could be imported from that part of the country which is not afflicted with the "foot and mouth" disease without having a great deal of effect on the American market and yet having a tremendous salving effect on our relations with the Argentine, a great step toward an understanding would be taken. Just a bare mention of such a move, however, seems to cause a panic among the American farmers.

As for our attitude toward our Latin neighbors after the war, it must take several things into account. We must remember that South America's natural markets lie, to a large extent, in Europe, and we should make no effort to interfere with these markets. We must remember that South America is young and growing, and by helping her build up her own industries, we should make every effort to help her grow. We should remember that South America's culture, through the medium of Hollywood American News Agencies (which supply South America with eighty per cent of its news, comic supplements to newspapers (which reach many times the number of people that radio broadcasts do), lies very close to ours, and act accordingly. Then, when crisis again knocks at our door, we will have a powerful and united Western Hemisphere.

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INSTITUTE COMMITTEE AGENDA

March 26

At the next meeting of the Institute Committee to be held at 5:00 P.M., Thursday, March 26 in Litchfield Lounge the following motions will be proposed according to the Walker Memorial Committee.

Motion:

"That the class elections be approved."

Motion:

"That the Beaver Key elections be approved."

Motion:

"That the M.I.T.A.A. elections be approved."

Motion:

"That the Senior Week Committee shall consist of fifteen men, twelve elected in a popular class election, and three ex-officio members, the President, Secretary, and Treasurer of the Senior Class."

Motion:

"That the 1943 Senior Week Committee elections be held on May 6, 1942."

Motion:

"That the Institute Committee hold regular bi-weekly meetings during the summer terms for the duration of the accelerated Senior schedule."

Motion:

"That if any Class A activity shall become insolvent, the Budget Committee shall bring up the activity for a vote of confidence in the Institute Committee. If a favorable vote is granted, the Institute Committee shall loan to that activity a sum sufficient to carry on with adequate working capital. The Budget Committee chairman shall agree beforehand with the activity head as to this amount, and shall state it before the vote is taken. A negative vote shall automatically remove Class A recognition from the activity."

"For the purpose of this motion, solvency shall be defined as an excess of assets over liabilities as shown by any current monthly or yearly report. Any positive balance in a trust fund may be added to the assets."

Nominees Speak At Election Forum

(Continued from Page 1)

of the candidates of all classes spoke on this point, one or two suggesting how the situation might be changed. Another topic which was talked about by the Candidates from each class was the social program for their respective classes. The most pressing of these activities programs is the summer program of the Class of 1943. The fact that the Senior Class is to attend school through the summer makes an informal series of dances, beach parties and picnics indispensable, was the consensus.

Summer Social Program

The forum opened with addresses from the two freshman candidates, John L. Hull and John F. Burke, each of whom stressed the need for unity in the Class of 1945. Following these speakers, Sid F. Atlas, S. Richard Childerhose, and John W. McDonough, Jr., all of the Class of 1943, delivered short speeches, the gist of which was the necessity to keep the summer social program going.

Finally each of the five candidates for Junior Class President delivered a talk, each of them in some way mentioning the importance of a successful Junior Prom next year. E. Carroll criticized the present method of election, and offered a plan which he hoped would alleviate the political competition among the various groups in Technology. Malcolm G. Kispert spoke mainly on a proposed enlarged Junior Prom Committee, and also offered a suggestion that a "band committee" be formed to obtain the "big name" bands for dances. George A. Schutte, Caleb S. Taft and John A. White followed Schutte, each discussing the Prom, and White giving a lengthy discourse on the harms of "party politics" in the Institute.

Adrienne Sings For I.F.C. Dance

(Continued from Page 1)

Adrienne Matzenauer, was born into a musical career, having Metropolitan Opera stars as parents with the great Caruso as her godfather. Adrienne has appeared in several night clubs and hotels in many cities all over the country, including New York, Chicago, Boston, and Atlantic City.

Punch Parties Saturday

In accordance with the party spirit of the I.F.C. this year, several fraternities are holding private punch parties and informal dances on the Saturday afternoon and evening following the dance. To make the week-end even more complete, a Dramashop play and the 5:15 Carnival are being presented that same Saturday night, while VooDoo is planning a special issue for the occasion to be distributed the night of the dance.

The winning door prize tickets will be drawn sometime during the dance by Miss Phyllis Reed, Simmons College student and date of John S. Arend, '42, who is chairman of the Interfraternity Conference. Special decorations are being planned as a surprise for dancers.

Walter A. Boyd, '43, of the Phi Kappa Sigma Fraternity, will handle all table reservations for the dance, while William O. Boschen, '44, from the Theta Chi House, is in charge of ushers.

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